

MATERIAL SAFETY DATA SHEET

DATE PRINTED: 11/11/2004

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SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

MANUFACTURERS NAME
 W.M. BARR & COMPANY, INC.

ADDRESS
 2105 Channel Avenue
 Memphis, TN 38113 USA

EMERGENCY TELEPHONE #1
 901-775-0100

EMERGENCY CONTACT
 W.M. Barr Technical Services

EMERGENCY INFORMATION
 "3E" 24 HOUR MEDICAL EMERGENCY #, 800 451-8346.
 SEE SECTION 5 FOR ADDITIONAL EMERGENCY INFORMATION

INVENTORY ITEM #
 QKTS94342

PRODUCT NAME
 KS TSP SURFACE PREP 1 QT

REVISED BY
 W.M. Barr Technical Services

REVISION DATE
 4/07/2004

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

| SUBSTANCE DESCRIPTION | PERCENT | CAS# | CARCINOGENICITY | | | |
|------------------------------------|---------|-----------|-----------------|-------|------|------|
| | | | NTP | ACGIH | OSHA | IARC |
| SODIUM SILICATE SOLUTION | 1 | 1344-09-8 | N | N | N | N |
| WATER | 95- 99 | 7732-18-5 | N | N | N | N |
| NONYLPHENOXYPOLYETHOXYETHANOL | 1 | 9016-45-9 | N | N | N | N |
| ETHYLENE GLYCOL MONOBUTYL ETHER | 1- 5 | 111-76-2 | N | N | N | N |

SECTION 3. REGULATORY INFORMATION

EXPOSURE LIMITS/REGULATORY INFORMATION

| SUBSTANCE DESCRIPTION | REG.AGCY U/M | | TWA | STEL | CEIL | SKIN | PEL |
|------------------------------------|--------------|-------|-------|------|------|------|-------|
| SODIUM SILICATE SOLUTION | ACGIH | MG/M3 | N/E | N/E | N/E | N | N/E |
| | OSHA | MG/M3 | N/E | N/E | N/E | N | 2.00 |
| WATER | ACGIH | PPM | N/E | N/E | N/E | N | N/E |
| | OSHA | PPM | N/E | N/E | N/E | N | N/E |
| NONYLPHENOXYPOLYETHOXYETHANOL | ACGIH | PPM | N/E | N/E | N/E | N | N/E |
| | OSHA | PPM | N/E | N/E | N/E | N | N/E |
| ETHYLENE GLYCOL MONOBUTYL ETHER | ACGIH | PPM | 25.00 | N/E | N/E | Y | N/E |
| | OSHA | PPM | N/E | N/E | N/E | Y | 50.00 |

ADDITIONAL REGULATORY INFO

The time weighted average (TWA) value described herein is a threshold limit value (TLV) as established by ACGIH. The permissible exposure limit (PEL) is a value established by OSHA.

CALIFORNIA (PROPOSITION #65)

Ingredients in this product are not listed on California's Prop 65 list: "Chemicals Known to the State to Cause Cancer or Reproductive Toxicity."

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SECTION 3. REGULATORY INFORMATION
(CONTINUED)

SEC. 313 SUPPLIER NOTIFICATION

The following information must be included in all MSDS that are copied and distributed for this material.

This product contains no chemicals subject to the reporting requirements of SARA III: Section 313.

CLEAN AIR ACT

This formula contains no known ozone depleting chemicals.

HAZARD COMMUNICATION STANDARD

This document is prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). This MSDS contains thirteen (13) sections.

The following effects and/or symptoms are not expected to be experienced by persons who use this product properly and according to ALL instructions, precautions, and warnings; however, should the product user experience ANY questionable effects or symptoms, the product user should immediately seek medical attention.

SECTION 4. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS

May cause dizziness; headache; irritation of the respiratory tract; injuries to mucous membranes; weakness; drowsiness; nausea; depression of the central nervous system; nasal discomfort and discharge; chest pain and coughing; vomiting; narcosis; liver and kidney injury and nose tumors.

SKIN CONTACT ACUTE EXPOSURE EFFECTS

Harmful if absorbed through the skin. May cause irritation; itching; redness; swelling; tissue damage; inflammation; discomfort or pain. May be absorbed readily to produce symptoms similar to those listed under ingestion.

EYE CONTACT ACUTE EXPOSURE EFFECTS

This material is an eye irritant. May cause irritation; excess redness and swelling of the conjunctiva; excess blinking and tear production and permanent eye injury.

INGESTION ACUTE EXPOSURE EFFECTS

May cause dizziness; headache; nausea; weakness; loss of coordination; vomiting; diarrhea; changes in white blood cells; and unconsciousness. Ingestion of significant quantities may result in red blood cell hemolysis.

CHRONIC EXPOSURE EFFECTS

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged skin contact may result in absorption of potentially harmful amounts of this material. May cause skin irritation; liver damage; kidney damage; blood disorders; and eye irritation. Prolonged skin contact may cause redness; swelling and possible skin destruction.

MEDICAL CONDITIONS AGGRAVATED

Diseases of the skin.

PRIMARY ROUTE OF EXPOSURE

Inhalation, ingestion, and dermal.

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SECTION 5. FIRST AID MEASURES

INHALATION

If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

SKIN CONTACT

Wash with soap and water.

EYE CONTACT

Immediately flush with water for at least 15 minutes. Get medical attention.

INGESTION

DO NOT induce vomiting. Call your poison control center, hospital emergency room, or physician immediately.

NOTE TO PHYSICIAN

This formula is registered with POISINDEX.

Call your local poison control center for further information.

SECTION 6. FIRE FIGHTING MEASURES

| HAZARD RATING SOURCE | HMIS | NFPA |
|----------------------|------|------|
| HEALTH | 1 | 1 |
| FLAMMABILITY | 0 | 0 |
| REACTIVITY | 0 | 0 |
| OTHER | NA | NA |

FLASH METHOD

SETA

FLASH POINT

N/E F

N/E C NO FLASH TO BOILING

LOWER EXPLOSION LIMIT

1

GENERAL COMMENTS

OSHA FLAMMABILITY: Not Applicable

EXTINGUISHING METHOD

Use carbon dioxide, dry powder, or foam.

FIRE FIGHTING PROCEDURES

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Stay away from heads of containers that have been exposed to intense heat or flame.

FIRE AND EXPLOSION HAZARDS

Close container after each use.

SECTION 7. ACCIDENTAL RELEASE MEASURES

CLEAN-UP

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. **SMALL SPILLS:** take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable. **LARGE SPILLS:** dike far ahead of spill for later disposal.

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SECTION 7. ACCIDENTAL RELEASE MEASURES
(CONTINUED)

For transportation related spills contact Chemtrec at 1-800-424-9300 for emergency assistance.

WASTE DISPOSAL

Dispose in accordance with applicable local, state and federal regulations.

SECTION 8. HANDLING AND STORAGE

STORAGE

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

HANDLING

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

SECTION 9. TRANSPORT INFORMATION

TRANSPORTATION

For D.O.T. information, contact W.M. Barr Technical Services Department.

SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION

Use only with adequate ventilation.

RESPIRATORY PROTECTION

For OSHA controlled work place and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

SKIN PROTECTION

Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product.

EYE PROTECTION

Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

OTHER PROTECTION

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

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SECTION 11. PHYSICAL AND CHEMICAL PROPERTIES

VOLATILE %

1.4
BY WEIGHT

BOILING POINT

GT 212.00 F 100.00 C BOILING RANGE: 212 F - 520 F

VAPOR DENSITY (Air = 1.0)

HEAVIER THAN AIR

EVAPORATION RATE

SLOWER THAN ETHER

BULK DENSITY

8.379
LBS/GAL AT 75 DEGREES F

pH FACTOR

12.8

PHOTOCHEMICALLY REACTIVE

NO

MAX V.O.C.

Heavy duty - 6.7 grams per liter

Regular strength - 3.5 grams per liter

MAX VAPOR PRESSURE

<1mm Hg at 20 degrees C

SECTION 12. STABILITY AND REACTIVITY

INCOMPATIBILITIES

Incompatible with strong oxidizing agents; strong caustics; acids; alkali; and reducing agents.

DECOMPOSITION

Thermal decomposition may produce carbon monoxide, and carbon dioxide.

POLYMERIZATION

Will not occur.

STABILITY

Stable.

SECTION 13. ADDITIONAL INFORMATION

IMPORTANT NOTE

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

LEGEND:

PPM = parts per million

MG/M3 = milligrams per cubic meter

N/E or NE = none established

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SECTION 13. ADDITIONAL INFORMATION
(CONTINUED)

GT = greater than

N/A or NA = not applicable

TCC = tag closed cup

TOC = tag open cup

PMCC = Pensky-Martens closed cup

IDLH = Immediately Dangerous to Life and Health

END OF MSDS